18654

SOUNDINGS IN FEET

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852

200th Anniversary 1807a-1990
National Oceanic and Atmospheric Administration
"Serving The Nation"
John A. Knauss, Administrator

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Nautical Chart Catalog No. 2, Panel N

18654

CONTINUATION OF

PETALUMA RIVER

Scale 1:50,000

PETALUMA

NOTE E
CAUTION
Mariners are warned that numerous unCharted piles, shoals, and obstructions have been reported in Petaluma River.

UNITED STATES – WEST COAST

CALIFORNIA

SAN PABLO BAY

Mercator Projection
Scale 1:50,000 at Lat. 38°08'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

NOAA VHF-FM WEATHER BROADCASTS
The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Redwood City, Calif. KHB 49 162.55 MHz

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 7 for important supplemental information.

CAUTION
Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Publication 117.
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:
⊙(Accurate location) ○(Approximate location)

PLANE COORDINATE GRID
(based on NAD 1927)
California State Grid, Zone 3, is indicated by dotted ticks at 10,000 foot intervals.

CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

CAUTION
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

NOTE B
SAN FRANCISCO VESSEL TRAFFIC SERVICE
Traffic lanes are intended for use by vessels 300 gross tons and over; arrows indicate the appropriate direction of traffic flow within each lane.
The San Francisco Vessel Traffic Service utilizes channels 12 and 14 and may be contacted on channels 13 or 16; call sign "San Francisco Vessel Traffic Service". See U.S. Coast Pilot for additional information; specific operating procedures are available from Commander, Eleventh Coast Guard District.

WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free) or to the nearest U.S. Coast Guard facility. A telephone communication is impossible. (33 CFR 153)

RADAR REFLECTORS
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION
For bascule bridges, whose spans do not open to a full vertical position, unlimited overhead clearance is not available for the entire charted horizontal clearance when the bridge is open, due to the inclinations of the drawspans over the channel.

HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83) and for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.210" southward and 3.910" westward to agree with this chart.

NOTE A
Navigation regulations are published in Volume 33, Code of Federal Regulations (33 CFR). Additions or deletions to Coast Pilot 7 published in the Notices to Mariners. Information concerning the regulations may be obtained from the Office of the Commander, Eleventh Coast Guard District; Commander, San Francisco Bay; or the District Engineer, Corps of Engineers in San Francisco, California.
Refer to charted regulation section numbers.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):
AERO aeronautical; A alternating; B black; Bn beacon; C can; DIA diaphone; F fixed; Fl flashing; G green; Gp group; IQ interrupted quick; Iso isophase (E int); LT HO lighthouse; M nautical mile; m minutes; MICRO TR microwave tower; Mkr marker; Mo morse code; N nun; OBSC obscured; Oc occulting; Or orange; Q quick; R red; Ra Ref radar reflector; Ro Ref radio reflector; R Bn radiobeacon; R TR radio tower; Ro racon; s second; SEC sector; St M statute miles; VQ very quick; W white; WHIS whistle; Y yellow

Bottom characteristics:
Blds boulders; Co coral; Cy clay; gy gray; Gvs gravel; G grass; M mud; Oys oysters; Rk rock; S sand; sd soft; Sh shells; sy sticky

Miscellaneous:
AUTH authorized; ED existence doubtful; EL reported (see chart); Obstn obstruction; PA position approximate; PD position doubtful; Rep reported; Wk wreck, rock, obstruction, or shoal swept clear to the depth indicated; (D) Rocks that cover and uncover, with heights in feet above datum of soundings; COLREGS International Regulations for Preventing Collisions at Sea, 1972; Subm submerged

HEIGHTS
Heights in feet above Mean High Water

AUTHORITIES
Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

TIDAL INFORMATION

Place Name	LAT/LONG	Height referred to datum of soundings (MLLW) Mean High Water	Mean Higher High Water	Mean Low Water	Mean Lower Low Water	Extreme Low Water
		feet	feet	feet	feet	feet
Point Orient	37°59'N/122°26'W	5.5	6.2	0.1		-2.0
Hercules, Refugio Landing	38°01'N/122°16'W	5.6	6.4	0.0		-2.0
Mare Island (Naval Shipyard)	38°04'N/122°15'W	5.5	6.3	0.0		-2.0
Sonoma Creek Entrance	38°09'N/122°24'W	5.0	5.0	0.0		-2.0
Petaluma River Entrance	38°07'N/122°30'W	5.9	6.4	1.0		-2.0

(400)

NAPA

Napa River

Rocktram

Mouzon

Home Hill

Bull I

Edgerley

Napa County Airport

Lombard

Chabot Terrace

Knights

Vallejo Heights

Butchertown

VALLEJO

MARE ISLAND

LITTLE ISLAND

ISLAND NO. 2

ISLAND NO. 1

KNIGHT ISLAND

SKAGGS ISLAND

TUBBS ISLAND

HUSS ISLAND

SONOMA MTS

Napa Slough

Second Napa Slough

South Slough

Dutchman Slough

Tulay Creek

Petaluma River

Black John Slough

Petaluma River

Lakeville

Tule Slough

Hog Island

Burdell

Novato

Deer I

DeWitt

Rafael Village

Arroyo San Jose

Ignacio

Petaluma Hill

Nautical Miles

Statute Miles

Yards

MINERAL DEVELOPMENT STRUCTURES
Obstruction lights and sound (fog) signals are required for fixed mineral development.

GENERAL ANCHORAGE NO. 19
110.224 (see note A)

GENERAL ANCHORAGE NO. 19-B
110.224 (see note A)

GENERAL ANCHORAGE NO. 18
110.224 (see note A)

NAVAL ANCHORAGE NO. 21
110.224 (see note A)

DANGER AREA
334.1160 (see note A)

DANGER AREA
334.1170 (see note A)

SAN PABLO BAY

CARQUINEZ STRAIT

Pinole Shoal

Davis Pt

Mariner Pt

Pacheco Pt

Radar Target

TARGET

Numerous small Fl G 2.5sec 150'9"

Fl G 4sec 15ft"11"

Fl R 4sec 15ft"10"

Fl R 4sec 20ft"14"

Fl R 4s 3M "18"

Fl R 4s 15ft "9"

Fl R 2.5s 15ft "7"

Fl R 4s 15ft "4"

Fl R 2.5s 15ft "3"
HORN (Oct 1 to Mar 15)

Fl G 4sec 15ft"17"

Fl G 6s 18ft 4M "5"
Ra Ref

Fl R 2.5sec 15ft 3M
Ra Ref

Fl R 2.5sec 15ft 3M
Ra Ref LFB(Oct 1 to Apr 15)

Fl G 4sec 15ft"19"

Fl G 4sec 15ft"21"

Fl G 4sec 15ft"23"

Fl R 4sec 15ft"25"

Fl R 4sec 15ft"27"

Fl G 4sec 15ft"29"

Fl R 4sec 15ft"31"

Fl R 4sec 15ft"33"

Fl G 4sec 15ft"35"

Fl R 4sec 15ft"37"

Fl G 4sec 15ft"39"

Fl R 4sec 15ft"41"

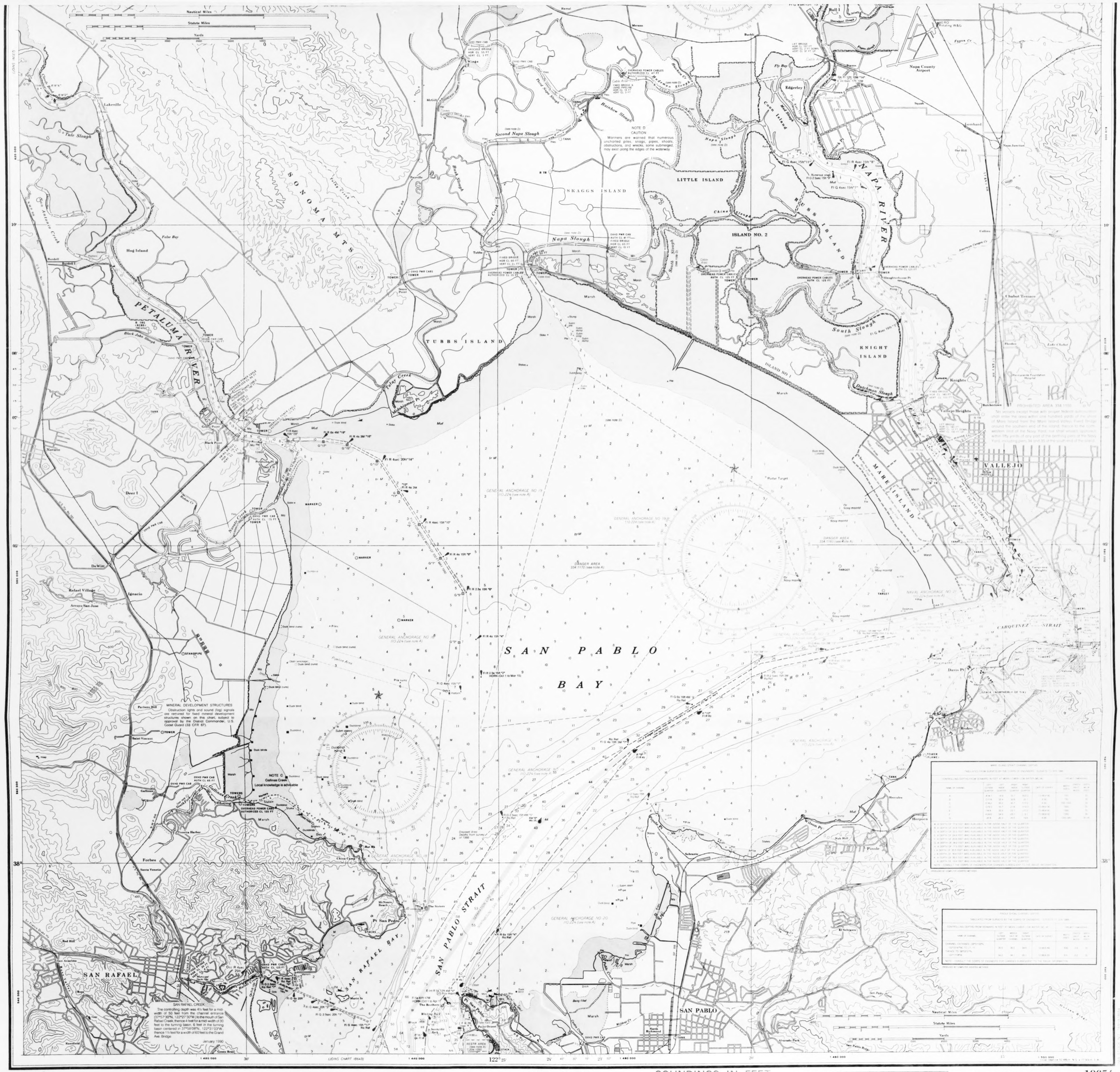
Fl G 4sec 15ft"43"

Fl R 4sec 15ft"45"

Fl G 4sec 15ft"47"

Fl R 4sec 15ft"49"

Fl G 4sec


SAN PABLO BAY
SONOMA MTS
PETALUMA RIVER
NAPA RIVER
SAN PABLO STRAIT
SAN RAFAEL BAY
CARQUINEZ STRAIT
MARE ISLAND STRAIT
TUBBS ISLAND
SKAGGS ISLAND
LITTLE ISLAND
ISLAND NO. 2
ISLAND NO. 1
KNIGHT ISLAND
RUSS ISLAND
VALLEJO
SAN RAFAEL
SAN PABLO
Second Napa Slough
Napa Slough
South Slough
Tolay Creek
Black John Slough
Rainbow Slough
Huichica Creek
Sonoma Creek
Petaluma River
Napa River
Lakeville
Tule Slough
Wingo
McGill
Petaluma
Tubbs
Burdell
Hog Island
False Bay
Novato
Deer I
DeWitt
Rafael Village
Arroyo San Jose
Ignacio
Perkins Hill
Saint Vincent
Galilee
Galilee Harbor
Forbes
Santa Venetia
Red Hill
San Anselmo
Kentfield
Green Brae
Edgerley
Fly Bay
Coon Island
Mud Slough
Napa
Napa Junction
Lombard
Napa County Airport
Burton
Green I
Bull I
Newell
Tubbs I
Burbank
Fagan Cr
Our Hill
Cuttings
Chabot Terrace
Lake Chabot
Knights
Valley Heights
Hunsaker Pt
Pt San Pedro
The Brothers
Point Orient
Point San Pablo
Davis Pt
Point Pinole
Pinole
Hercules
Rodeo
Herpolsheimer Pt
Meadow Pt
Mallard I
Wickson Pt
Nob Hill
Pinole
Herpolsheimer
El Sobrante
Richmond
North Richmond
Wildcat Cr
San Pablo Creek
Alvarado Park
San Pablo Bridge
Mallard Slough
Suisun Bay
Carquinez Strait
Benicia
Martinez
Port Costa
Crockett
Selby
Avon
Tormey
Tormey Hts
Rodeo
Hercules
Pinole
Pinole Shoal
Pinole Shoal Ch
Mallard Ch
Suisun Ch
Carquinez Br
Benicia-Martinez Br
San Pablo Bay Br
Richmond-San Rafael Br
Richmond Inner Harbor
Richmond Outer Harbor
Richmond Municipal Pier
Richmond Long Wharf
Point Potrero
Point Molate
Point Richmond
Point Isabel
Point Pinole
Point Orient
Point San Pablo
Point Pedro
Point Blunt
Point Knox
Point Richmond
Point Molate
Point Potrero